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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23353

7590

12/15/2003

RADER FISHMAN & GRAUER PLLC LION BUILDING 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036 EXAMINER CHOOBIN, BARRY

PAPER NUMBER

ART UNIT

DATE MAILED: 12/15/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,118	12/29/2000	Noriko Kajiki	KAN-110	6345

TITLE OF INVENTION: METHOD AND SYSTEM FOR COMPRESSING MOTION IMAGE INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	03/15/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





## Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

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WASHINGTON, L	C 20030					(Depositor's name)	
						(Signature)	
						(Date)	
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PLEASE NOTE: Unless	RESIDENCE DATA TO B an assignee is identified bel d to the USPTO or is being s EE	ow, no assignee d ubmitted under se	ata will appear on th parate cover. Comple	e patent. Inclusion of a	Γ a substitute for filing an ass	ate when an assignment has ignment.	
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☐ Issue Fee			☐ A check in the an	nount of the fee(s) is end	closed.		
☐ Publication Fee		☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Advance Order - # of	Copies		☐ The Director is I Deposit Account No		harge the required fee(s), or (enclose an extra of	credit any overpayment, to copy of this form).	
Director for Patents is reque	sted to apply the Issue Fee ar	nd Publication Fee	(if any) or to re-appl	y any previously paid i	ssue fee to the application ide	entified above.	
(Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ed) will not be accent; or the assigned	cepted from anyone ee or other party in k Office.	1			
obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450. DO NOT S	tion is required by 37 CFR by the public which is to five a special by 35 U.S.C. 1 les to complete, including gam to the USPTO. Time will the amount of time you rhis burden, should be sent to Jffice, U.S. Department of END FEES OR COMPLE for Patents, Alexandria, Virg	le (and by the US 22 and 37 CFR 1.1 thering, preparing 1 vary depending equire to complet to the Chief Inforr of Commerce, A TED FORMS TO	PTO to process) an 14. This collection is 3, and submitting the upon the individual te this form and/or nation Officer, U.S.				

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	IAN & GRAUER PLLC	CHOOBIN, BARRY		
	LION BUILDING 1233 20TH STREET N.W., SUITE 501			PAPER NUMBER
WASHINGTON,	DC 20036		2625	~1
			DATE MAILED: 12/15/2003	(

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 655 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 655 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.





# Application No. Applicant(s) KAJIKI ET AL. 09/750,118 Notice of Allowability ... Examiner **Art Unit** Barry Choobin 2625 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to . 2√⊠ The allowed claim(s) is/are <u>1-20</u>. 3. The drawings filed on <u>29 December 2000</u> are accepted by the Examiner. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) 🛛 All 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d). 9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1⊠ Notice of References Cited (PTO-892) 5 Notice of Informal Patent Application (PTO-152) 2 Notice of Draftperson's Patent Drawing Review (PTO-948) 6 Interview Summary (PTO-413), Paper No.\_\_\_\_\_. 3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08), 7 Examiner's Amendment/Comment Paper No. 6 4 Examiner's Comment Regarding Requirement for Deposit 8 Examiner's Statement of Reasons for Allowance of Biological Material 9 ☐ Other



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### **DETAILED ACTION**

### Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on August 21 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

# **REASON FOR ALLOWANCE**

2. The following is an examiner's statement of reasons for allowance: prior art fails to teach or fairly suggest a method of compressing motion image information wherein an image in each frame is divided into blocks in advance, and each of all blocks is approximated by a single plane defined be three data representing the magnitude of a pixel value in the block, the block-to-block gradient of the pixel value in the block, the block-to-block gradient of the pixel value in an X direction, and the block-to-block gradient of the pixel value in a Y direction in combination with other elements of independent claims 1 - 4, 7 - 8, 12 - 13 and 16 - 17.

Now claims 1 – 20 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 09/750,118

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A: US 5485213 to Murashita et al is cited for Method and apparatus for encoding and decoding image data.

B: US 5467409 to Yamamoto is cited for Method for determining a surface to be hidden and image transforming apparatus.

C: US 6408109 to Silver et al is cited for Apparatus and method for detecting and subpixel location of edges in a digital image.

D: US 5193001 to Kerdranvrat is cited for Method of segmenting the field of motion of an image and its application to the encoding of video image.

E: US 5315670 to Shapiro is cited for Digital data compression system including zero tree coefficient coding.

F: US 5864678 to Riddle is cited for System for detecting and reporting data flow imbalance between computers using grab rate outflow rate arrival rate and play rate.

G: US 5870754 to Dimitrova et al is cited for Video retrieval of MPEG compressed sequences using DC and motion signatures.

H: US 5909252 to Ueda et al is cited for High efficiency encoder and video information recording reproducing apparatus.

I: US 6018366 to Asai et al is cited for Video coding and decoding system and method.

J: US 5912991 to Jeon et al is cited for Contour encoding method using error bands.

K: US 6201896 to Ishikawa is cited for Picture encoding apparatus.

L: US 6233008 to Chun is cited for Target tracking method device therefor.

M: US 6260171 to Gray is cited for Digital data recording channel.

N: US 4734784 to Tanaka is cited for Image processing apparatus.





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O: US 5367385 to Yuan is cited for Method and apparatus for processing block coded image data to reduce boundary artifacts between adjacent image blocks.

P: US 4831659 to Miyaoka et al is cited for Method for image data coding.

Q: US 6151409 to Chen et al is cited for Methods for compressing and reconstructing a color image in a computer system.

R: US 6028967 to Kim et al is cited for Method of reducing a blocking artifact when coding moving picture.

#### CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry Choobin whose telephone number is 703-306-5787. The examiner can normally be reached on M-F 7:30 AM to 18:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 703-308-5246. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Barry Choobin December 12, 2003 Jayanti K. Patel Primary Examiner